

Thursday

04130123

1 d.

I this is pecanse there is no possible

point in time that I will be smaller than

some maltiple constant multiple of 2

and since more is always larger it grows faster

b. I this is because there is a point in time where it a multiple of 1 is greater than 2 so then therefore I grows Faster.

C. If this is because there is no point where some constant multiple of 2 is greater than I the inverse rather is true the 1 is always greater than 2 after a certain point

2. d. $\log_{1}(x) = 8$ $\log_{1}x = 8 \log_{1}2$ $\log_{2}x = \log_{2}2^{2}$ $2^{\log_{1}x} = 2\log_{1}x$

oc = 28

b. $\log_{5}(x) = \log_{5} 2 + 25$ $\log_{5}(x) - \log_{5}(2) = \log_{5} 5^{25}$ $\log_{5} \frac{x}{2} = \log_{5} 5^{25}$ $\log_{5} \frac{x}{2} = \log_{5} 5^{25}$

 $\frac{x}{2} = 5^{18}$ $x = 2.5^{18}$

31 = log 4 (\$2)

31 = log 4 (\$2)

31 = log 32

log 4

31 = log 25

log 22

21 = log 22

22

C,,

3. greetings = ["howdy", Hello", Hey"]
This is because we initialize greetings = ["Hi, Hello,
"Hey"]. we then call the change function that
automatically changes the Oth term (first term)
to "howdy" of the augument array.